

housing; and

an engaging mechanism located between the unit housing and the clutch housing for blocking rotation of the clutch housing relative to the unit housing.

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22. The driving apparatus according to claim 21, wherein the clutch functions to block a movement of the decelerating mechanism based on force applied to the driven device.

10 23. The driving apparatus according to claim 21, wherein a bearing for supporting the rotating shaft is attached to the clutch housing.

15 24. The driving apparatus according to claim 21, wherein the decelerating mechanism is a worm gear mechanism including a worm shaft coupled to the clutch and a worm wheel meshed with the worm shaft.

20 25. The driving apparatus according to claim 24, wherein a bearing for supporting the worm shaft is attached to the clutch housing.

26. The driving apparatus according to claim 24, wherein the clutch comprises:

25 a driving rotor coupled to the rotating shaft for rotation integral therewith;

a driven rotor coupled to the worm shaft for rotation integral therewith, the driven rotor operatively coupled to the driving rotor; and

30 a lock member for selectively allowing and blocking the rotation of the driven rotor.

27. The driving apparatus according to claim 26, wherein the

driven rotor is formed integrally with the worm shaft.

28. The driving apparatus according to claim 26, wherein the driven rotor, contacts an end face of the rotating shaft through the ball in the axial direction of the driven rotor, and the driven rotor can directly contact the driving rotor in the rotating direction of the driven rotor.

29. The driving apparatus according to claim 21, wherein a ball is located between an end face of the rotating shaft and the clutch.

30. The driving apparatus according to claim 21, wherein the driven device is a lifting mechanism for moving up and down a windowpane.

31. A driving apparatus for driving a driven device, comprising:

a motor, which includes a motor housing and a rotating shaft rotatably supported by the motor housing;

an output unit coupled to the motor, wherein the output unit includes a decelerating mechanism for transmitting rotation of the rotating shaft, after decelerating, to the driven device;

a clutch located between the rotating shaft and the decelerating mechanism, wherein the clutch allows transmission of rotation from the rotating shaft to the decelerating mechanism and blocks transmission of rotation from the decelerating mechanism to the rotating shaft, and wherein the clutch has a clutch housing fixed to the unit housing; and

an engaging mechanism located between the motor housing and the clutch housing for blocking rotation of the clutch

housing relative to the motor housing.

32. The driving apparatus according to claim 31, wherein the clutch functions to block a movement of the decelerating mechanism based on force applied to the driven device.

33. The driving apparatus according to claim 31, wherein the decelerating mechanism is a worm gear mechanism including a worm shaft coupled to the clutch and a worm wheel meshed with the worm shaft.

34. The driving apparatus according to claim 33, wherein the clutch comprises:

a driving rotor coupled to the rotating shaft for rotation integral therewith;

a driven rotor coupled to the worm shaft for rotation integral therewith, the driven rotor operatively coupled to the driving rotor; and

a lock member for selectively allowing and blocking the rotation of the driven rotor.

35. The driving apparatus according to claim 34, wherein the driven rotor is formed integrally with the worm shaft.

36. The driving apparatus according to claim 34, wherein the driven rotor contacts an end face of the rotating shaft through the ball in the axial direction of the driven rotor, and the driven rotor can directly contact the driving rotor in the rotating direction of the driven rotor.

37. The driving apparatus according to claim 31, wherein a ball is located between an end face of the rotating shaft and the clutch.

38. The driving apparatus according to claim 31, wherein the driven device is a lifting mechanism for moving up and down a windowpane.

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39. A driving apparatus for driving a driven device, comprising:

a motor including a rotating shaft;

10 an output unit coupled to the motor, wherein the output unit includes a decelerating mechanism for transmitting rotation of the rotating shaft, after decelerating, to the driven device, and wherein the decelerating mechanism is a worm gear mechanism including a worm shaft separated from the rotating shaft and a worm wheel meshed with the worm shaft;

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20 a clutch located between the rotating shaft and the worm shaft, wherein the clutch allows transmission of rotation from the rotating shaft to the worm shaft and blocks transmission of rotation from the worm shaft to the rotating shaft.

25 40. The driving apparatus according to claim 39, wherein the clutch functions to block a movement of the decelerating mechanism based on force applied to the driven device.

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41. The driving apparatus according to claim 39, wherein the clutch comprises:

a driving rotor coupled to the rotating shaft for rotation integral therewith;

30 a driven rotor coupled to the worm shaft for rotation integral therewith, the driven rotor operatively coupled to the driving rotor; and

a lock member for selectively allowing and blocking the

rotation of the driven rotor.

42. The driving apparatus according to claim 41, wherein the driven rotor is formed integrally with the worm shaft.

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43. The driving apparatus according to claim 41, wherein the output unit comprises a unit housing for accommodating the worm gear mechanism, and the clutch comprises a clutch housing for accommodating the driving rotor, the driven rotor and the lock member, wherein the clutch housing is fixed to the unit housing.

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44. The driving apparatus according to claim 43, wherein the unit housing has a support for rotatably supporting one end of the worm shaft, and the clutch housing is fixed to the support.

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45. The driving apparatus according to claim 41, wherein the clutch comprises a clutch housing for unremovably accommodating the driving rotor, the driven rotor and the lock member, wherein the clutch is assembled as a single unit.

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46. The driving apparatus according to claim 41, wherein the clutch comprises a clutch housing for accommodating the driving rotor, the driven rotor and the lock member, wherein the lock member allows the driving rotor to rotate the driven rotor relative to the clutch housing when the driving rotor is rotated by the rotating shaft, and wherein the lock member is held between the driven rotor and the clutch housing to block the rotation of the driven rotor relative to the clutch housing when the driven rotor is rotated by the worm shaft.

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47. The driving apparatus according to claim 46, wherein the lock member comprises a plurality of rolling bodies for circulating about an axial center of the driving rotor to the accompaniment of rotation of the driving rotor, and the
5 clutch comprises a support member for supporting the rolling bodies to hold a relative positional relationship of the rolling bodies.

48. The driving apparatus according to claim 47, wherein a
10 bearing for supporting the rotating shaft is arranged integral with the support member.

49. The driving apparatus according to claim 47, wherein the bearing for supporting the worm shaft is arranged integral
15 with the support member.

50. The driving apparatus according to claim 41, wherein the driven rotor contacts an end face of the rotating shaft through the ball in the axial direction of the driven rotor,
20 and the driven rotor can directly contact the driving rotor in the rotating direction of the driven rotor.

51. The driving apparatus according to claim 39, wherein a
25 ball is located between an end face of the rotating shaft and the clutch.

52. The driving apparatus according to claim 39, wherein the driven device is a lifting mechanism for moving up and down a windowpane.

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Remarks

These amendments are to place the application in better form for examination, to eliminate the multiple dependency.